

Fresco-S Multi-viewer Quick Setting-up Manual

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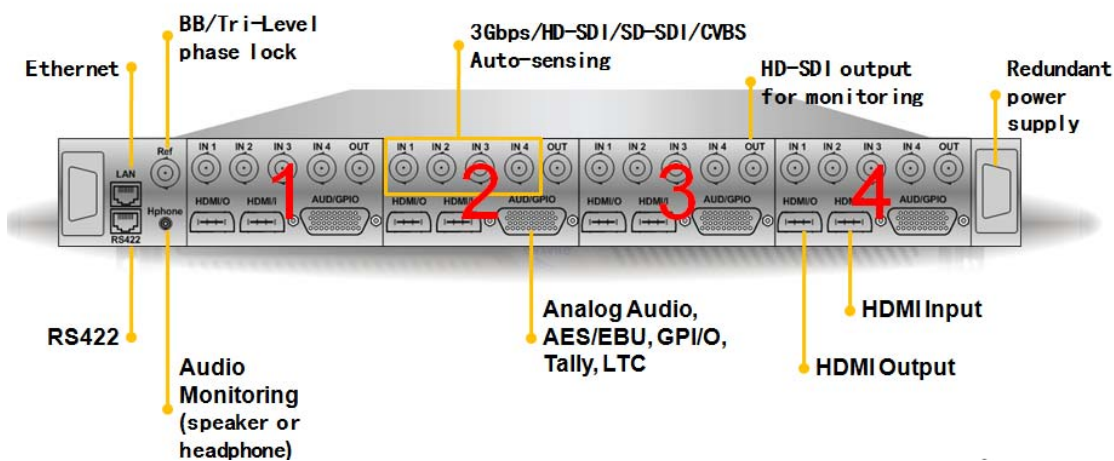
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System components

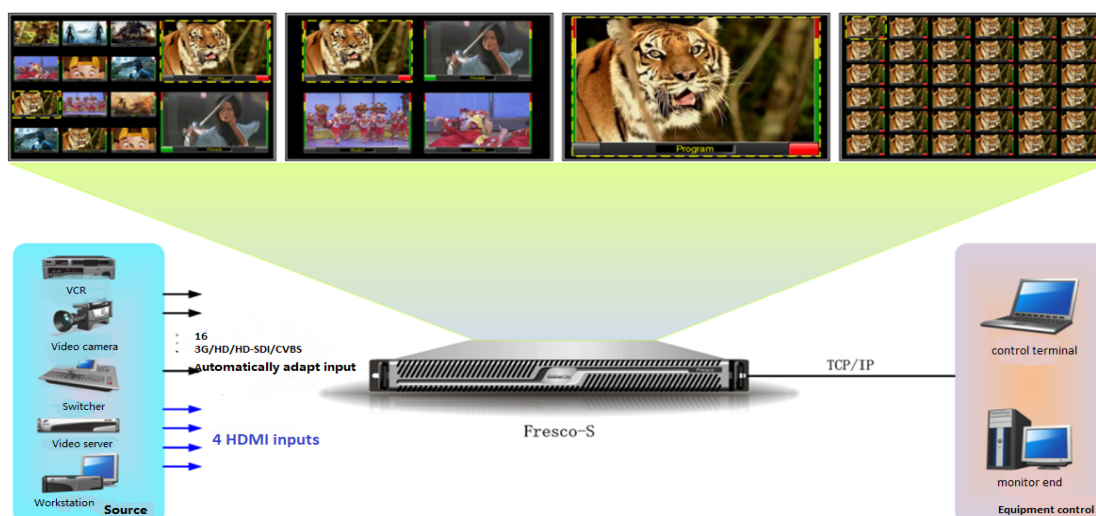
1, Hardware-Fresco-S chassis front panel



2, Hardware-Fresco-S chassis rear panel



3, Equipments connection diagram

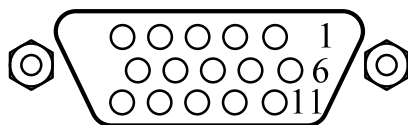


Description of equipments connection

1, Equipments preparation

- 2 PCs are control terminal and monitor end.
- Multiple Fresco-S multi-viewer chassis (cascading according to real needs).
- Big screens used to display multi-viewer output signals.
- Signal sources and signal cables which take function of connection between signal sources and multi-viewer chassis (according to real needs).
- Breakout cable (GPI/O, Tally, LTC, Analog audio, AES/EBU)

Instruction: the interfaces of breakout cables of each module can realize 8 expansions of GPIO by DB15 slot, the definition of DB15 pins is depicted as follow:

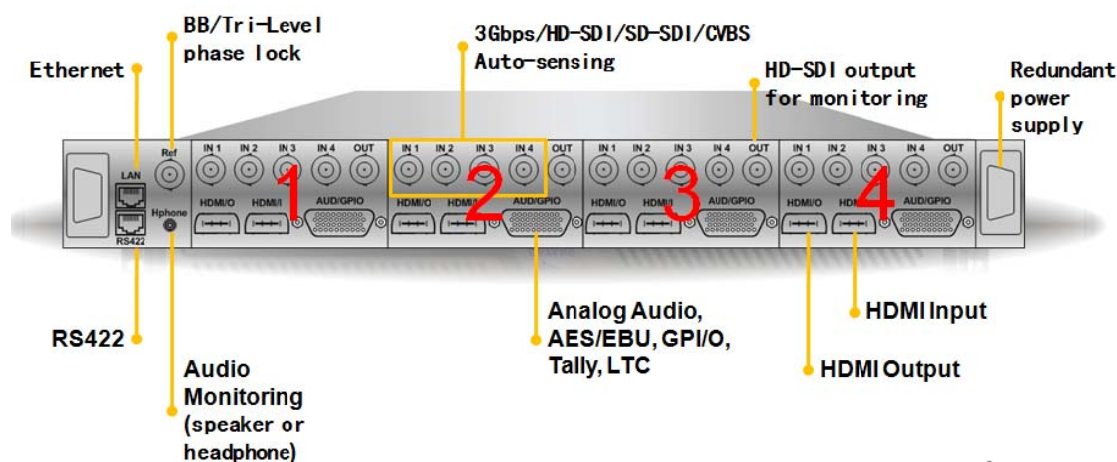


Pins	1	3	5	7	9	11	13	15
Function	GPIO_0	GPIO_1	GPIO_2	GPIO_3	GPIO_4	GPIO_5	GPIO_6	GPIO_7

Pins	2	4	6	8	10	12	14
Function	GND	GND	GND	GND	GND	GND	GND

2, Start-up settings

Before starting up chassis, need to ensure normal network connection between control terminal and multi-viewer chassis, and connect HDMI outputs of each modules to video terminals.




Next, plug two power supply cables, take down front panel, and turn on left and right side power switch. In the process of multi-viewer starting up, wait round 1 minute, the starting up interface will be displayed in output terminals.

At lower right corner of starting up interface, the default IP, subnet mask and gateway will be shown in yellow fonts, please recode these information.

Instruction: when control terminal software connect to multi-viewer chassis, users need to input IP address of multi-viewer chassis.

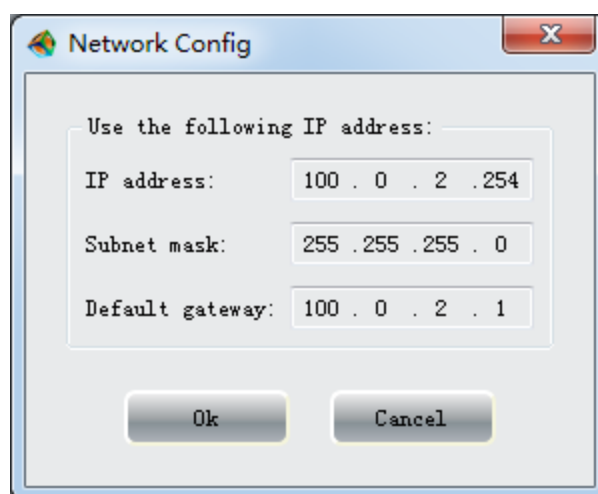


Modify IP address of control terminal PC according to connection information of Fresco-S chassis, make IP addresses of control terminal PC is in same network segment with Fresco-S chassis.

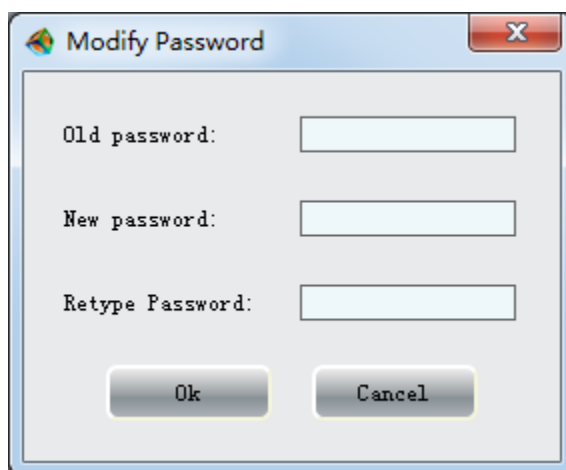
After configuration, open MVDesign software, press connect button  in software window to pop-up login window, input IP address in starting up interface of Fresco-S chassis (such as 100.0.2.129), the default password is admin, then press login button.



After login, click **【Device】** menu, choose **【Network Setup】** to pop-up **【Network Setup】** window. users are able to modify IP, subnet mask and gateway based on real requirements.



Users can also modify default password. Click **【Device】** menu, choose **【Modify Password】** to pop-up **【Modify Password】** window, new password can be set after old password verification.

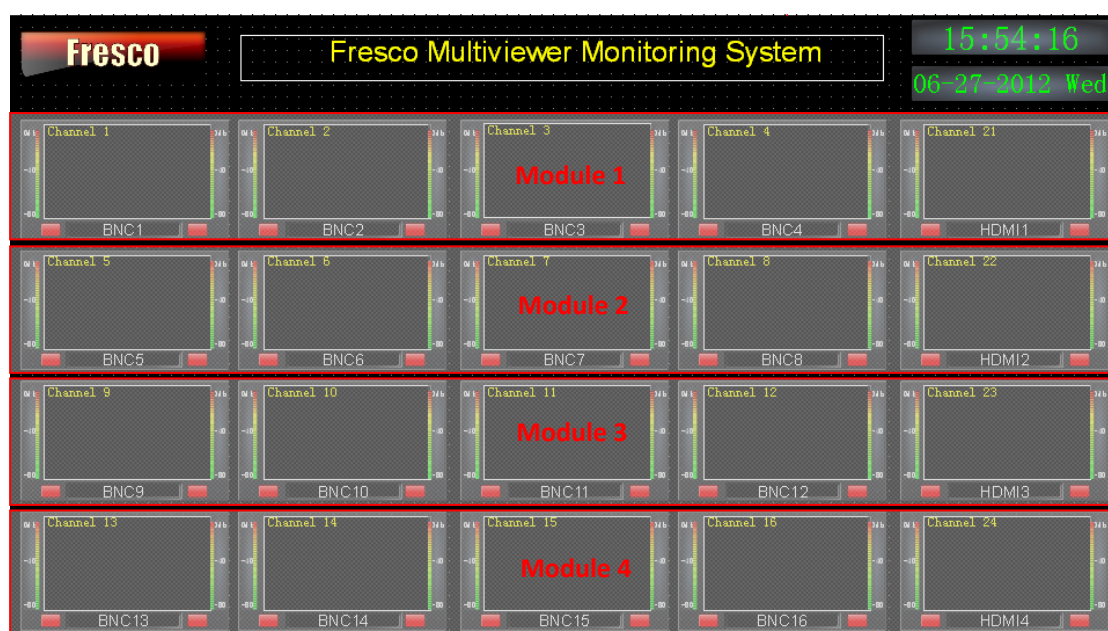


When complete modification of IP address and login password, can use new IP and password to login Fresco-S multi-viewer.

3, Start-up test and verification

After successful start-up, need to test Fresco-S inputs and outputs. In test process at least need one SDI signal source (traditional device), one HDMI signal source (laptop), one displayer with HDMI input and one monitor.

After start-up, system will automatically apply following layout (1920x1080_20). 20 signal sources from first VA module will be displayed. Use HDMI cable to connect HDMI/O of first module with displayer; use BNC cable to connect Out (HD-SDI monitoring output) of first VA module with monitor.



Orderly connect all SDI signal sources to four modules with 16 SDI inputs in all, and orderly connect all HDMI signal sources to four modules with 4 HDMI inputs in all, verify normality of each signal by use of displayer. In the meantime, users can also check HDMI outputs and HD-SDI outputs.

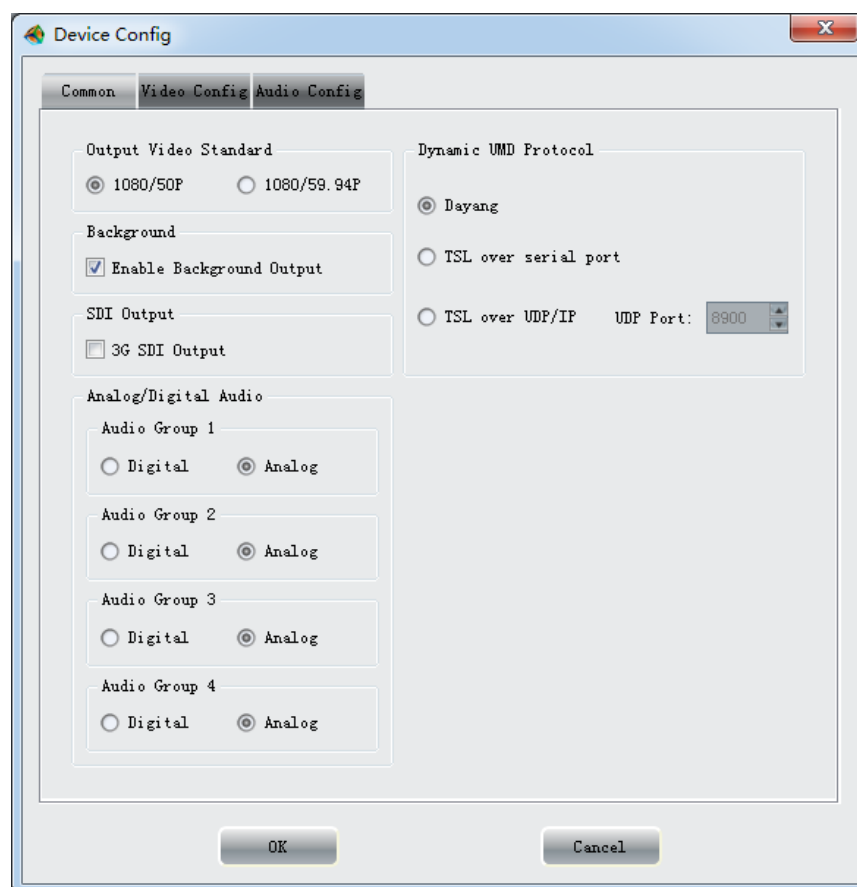
By this way can quickly judge outputs and inputs of multi-viewer are whether normal or not. if there are any problems with VA modules, please contact customer service to change.

4, The settings of key parameters

Click "Config" button in main interface to pop-up 【Device Config】 window, can set a variety of parameters of VA outputs, as shown in the picture.

Users can modify relative parameters according to real requirements (for detailed parameter settings, please refer to "MVDesign software user manual" chapter 3.5.7, here will not give unnecessary details).

1) Common settings



According to practical use, refer to input resolution and refresh frequency, users can set

video standard to 1080/50P (default) or 1080/59.94P.

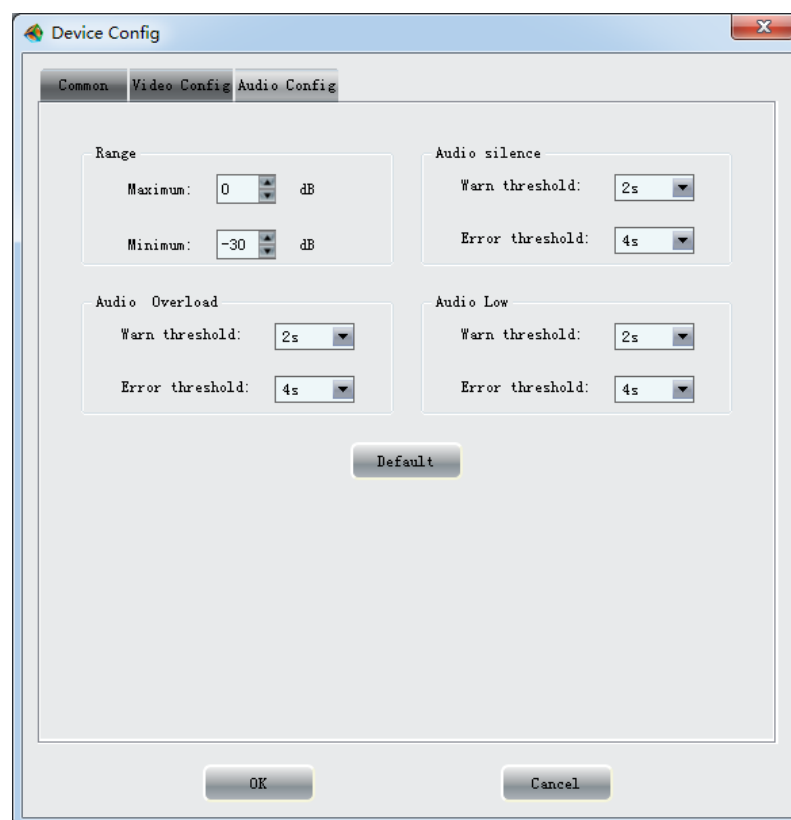
Lower is the part of audio config, digital audio input is for default, and Audio Group represents the sequence of modules.

2) Video config



With regard to probing "video frozen" and "video black" of video signal. For digital signal, parameter "pixel difference level" and "area tolerance level" can be set to 1. For analog signal, set above two parameters to 5.

3) Audio config



The probing thresholds of audio overload and audio too low are related to maximum value and minimum value. the empirical value of former is -6dBFS, and -20dBFS for later. i.e. audio under -20dBFS is considered to be too low, and audio over -6dBFS is too high.



5, Interaction between control terminal and Fresco equipment

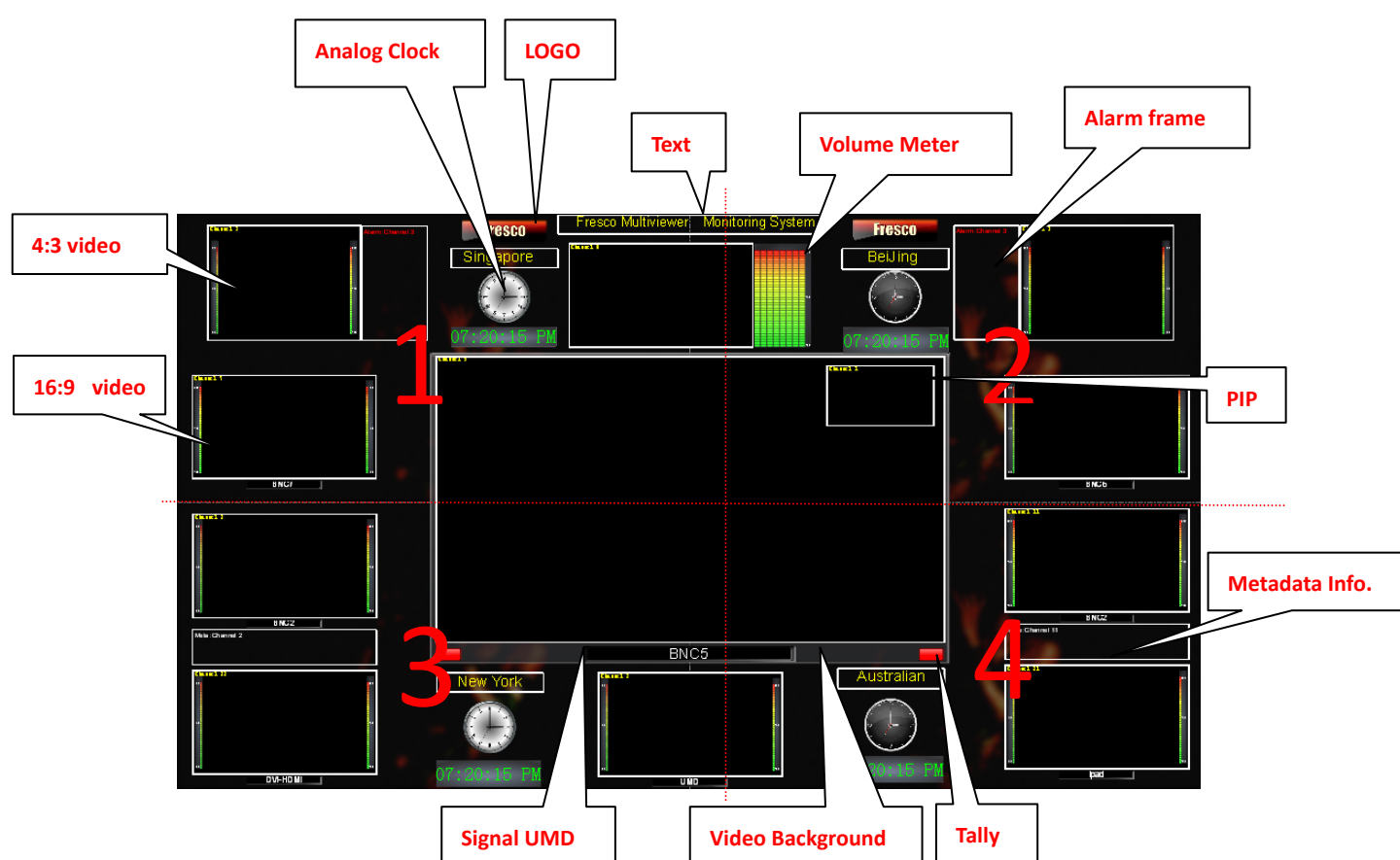
- 1) Start MVDesign software, and login specified Fresco-S multi-viewer by its IP address, import proper layout templates according to practical use and based on this to complete quick edit for layout.
- 2) In the template presets list, choose Template9(3840x2160) and click Apply in right-click menu, this layout template is set to editable.



- 3) In edit area, can modify current layout template, like following picture.



- 4) After finish edit, save this layout. Use "Synchronism" button  to upload layout of control terminal to multi-viewer and display it in the screens.
- 5) Can also use "Reverse Synchronism" button  to download layouts saved in multi-viewer to control terminal.
- 6) For various layouts produced in software, besides users can upload them to multi-viewer chassis to realize switching between different layouts, can also backup these layouts by use of export function of MVDesign software.
- 7) Next, combine with one typical layout, briefly instruct some notes. For example: adopt 2x2 jointing type for 4 HDMI outputs, the resolution can achieve 3840x2160 after jointing of screens, the effect is shown as following:



- 8) This layout is one of layout templates in Fresco-S, including video, volume meter, text, UMD, video background, analog/digital clock, metadata and some other frequently used elements. The numbers shown on layout indicate the output sequence of displays.
- 9) Users are able to overlay video windows on background or not. Volume meters can be located in double sides of video window or single side; Volume meters can also be positioned inside the video window in transparency or outside. users can adjust layout by

their needs to achieve best display effect.